

**Commonwealth of Kentucky
Environmental and Public Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382**

DRAFT

**AIR QUALITY PERMIT
Issued under 401 KAR 52:020**

Permittee Name: Armstrong Hardwood Flooring Company
Mailing Address: 630 Industry Rd., Somerset, KY 42501

Source Name: Armstrong Hardwood Flooring Company
Mailing Address: 630 Industry Rd.
Somerset, KY 42501

Source Location: same as above

Permit Number: V-06-037
Source A. I. #: 3813
Activity #: APE20040001
Review Type: Title V/Synthetic Minor
Source ID #: 21-199-00074

Regional Office: London Regional Office
875 S. Main Street
London, KY 40741
(606) 878-0157

County: Pulaski

**Application
Complete Date:** 9/21/2004
Issuance Date:
Revision Date:
Expiration Date:

**John S. Lyons, Director
Division for Air Quality**

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	Permit type	Log or Activity#	Complete Date	Issuance Date	Summary of Action
V-99-041	Initial Issuance	F927	01/21/1999	02/2/2000	Initial Operating Permit
V-99-041 (Rev 1)	Administrative Amendment	G770	07/20/2000	8/02/2000	Name Change
V-06-037	Renewal	APE20040001	09/21/2004	---	Permit Renewal

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**01, 02 Wood-fired indirect heat exchangers with natural gas secondary fuel**

Description: Two (2) Hurst Boilers, Stokers, Model Number M-2275-150-DF, equipped with multiclone dust collectors.
Maximum Continuous Rating: 16.74 mmBTU/hr each
Maximum Operating Schedule: 8,760 hours per year
Date Installed: April 1990

APPLICABLE REGULATIONS:

401 KAR 59:015. New indirect heat exchangers. Applicable to indirect heat exchangers having a heat input capacity of more than one (1) million BTU per hour and less than 250 million BTU per hour constructed on or after April 9, 1972.

1. **Operating Limitations:** Equipment and controls shall be operated in such a manner as to assure compliance with the emission limitations in Section B2 below.
2. **Emission Limitations:**
 - A. 401 KAR 59:015 § 4 (1) (c): Particulate emissions shall not be in excess of 0.42 lb/mmBTU actual heat input.
 - B. 401 KAR 59:015 § 5 (1) (c) (1): Sulfur dioxide emissions shall not be in excess of 1.83 lb/mmBTU actual heat input while burning natural gas.
 - C. 401 KAR 59:015 § 5 (1) (c) (2): Sulfur dioxide emissions shall not be in excess of 2.93 lb/mmBTU actual heat input while burning wood.
 - D. Source wide emission limits on individual HAP, combined HAPs and VOC. Refer to Section D for details.

Compliance Demonstration Method:

Pollutant	Wood (lb/mmBTU)	Wood (lb/ton of wood)	Natural Gas (lb/mmSCF)	Natural Gas (lb/mmBTU)
CO	0.600	9.216	84	0.0823
NO _x	0.490	7.526	100	0.0980
PM	0.317	4.869	7.6	0.0074
PM ₁₀	0.287	4.804	7.6	0.0074
SO ₂	0.030	0.461	0.6	0.0006
VOC	0.017	0.261	5.5	0.0054

Emission factors are referenced from AP-42, Fifth Edition, Volume I, Chapter 1, External Combustion Sources.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**2. Emission Limitations (Continued):
Compliance Demonstration Method (Continued):**

PM and PM₁₀ emission factors for wood combustion are referenced from Table 1.6-1 (09/03), dry wood, mechanical collector. CO, NO_x and SO₂ emission factors for wood combustion are referenced from Table 1.6-2 (09/03), dry wood-fired boilers. The VOC emission factor for wood combustion is referenced from Table 1.6-3 (09/03). The highest heating value (HHV) for the wood is assumed to be 0.00768 mmBTU/lb. HAP emission factors (not listed here) for wood combustion are referenced from Tables 1.6-3 (09/03) and 1.6-4 (09/03).

NO_x and CO emission factors for natural gas combustion are referenced from Table 1.4-1 (7/98), small boilers (< 100 mmBTU/hr). PM, PM₁₀, SO₂ and VOC emission factors for natural gas combustion are referenced from Table 1.4-2 (7/98). HAP emission factors for natural gas combustion (not listed here) are referenced from Tables 1.4-3 (7/98) and 1.4-4 (7/98).

3. Testing Requirements: Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005, § 2(2) and 50:045, § 4.**4. Specific Monitoring Requirements:**

- A. The tons of wood burned in the boilers shall be monitored monthly.
- B. The million cubic feet of natural gas burned in the boilers shall be monitored monthly.
- C. Source-wide emissions of individual HAP, combined HAPs and VOC shall be monitored on a monthly basis. Refer to Section D for details.

5. Specific Recordkeeping Requirements:

- A. Records of the tons of wood burned in the boilers monthly shall be maintained.
- B. Records of the source-wide million cubic feet of natural gas burned monthly shall be maintained.
- C. Records of source-wide individual HAP, combined HAPs and VOC emissions shall be maintained. Refer to Section D for details.

6. Specific Reporting Requirements: The reporting requirements in Section F5 for the boilers are specified here to only require the submittal of an emission calculation spreadsheet. The data in the spreadsheet for the boilers shall at a minimum contain the monthly usage rates of wood and natural gas in the boilers and the monthly and twelve-month rolling total HAP and VOC emission rates.**7. Specific Control Equipment Operating Conditions:** The multiclone dust collectors shall be operated and maintained in accordance with manufacturer's recommendations. Refer to Section E.**8. Alternate Operating Scenarios:** N/A

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**03 Wood working operations**

Description: Various cutting, milling, sanding, truck load out, and finishing operations. Particulate emissions are controlled by eight (8) baghouses. Baghouses 1 – 5 are Pneumafil, model # 11.5-320-12 (4,800 ft² of filter area) and baghouses 6 – 8 are Pneumafil model # 11.5-320-10 (4,000 ft² of filter area). Cyclones are used to transfer wood dust to the baghouses. The maximum process weight rate of any wood working operation that results in particulate emissions to the atmosphere is 5.24 tons per hour.

APPLICABLE REGULATIONS:

401 KAR 59:010, New process operations applicable to each affected facility associated with a process operation which is not subject to another emission standard with respect to particulates in Chapter 59 of 401 KAR commenced on or after July 2, 1975.

40 CFR Part 64, Compliance Assurance Monitoring

1. **Operating Limitations:** Equipment and controls shall be operated in such a manner as to assure compliance with the emission limitations in Section B2 below.

2. **Emission Limitations:**

A. 401 KAR 59:010, § 3(1), Visible emissions from each baghouse vent to the atmosphere shall be less than 20 percent opacity.

B. 401 KAR 59:010, § 3(2), Particulate matter emissions from each baghouse vent shall not exceed 10.03 pounds per hour.

Compliance Demonstration Method:

Refer to 4. **Specific Monitoring Requirements** for compliance requirements for the opacity standard. Compliance with the mass standard is assumed when the baghouse(s) are in place and operating efficiently. Refer to 7. **Specific Control Equipment Operating Conditions.**

3. **Testing Requirements:** Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005, § 2(2) and 50:045, § 4.

4. **Specific Monitoring Requirements:**

A. The condition of whether or not each baghouse is venting to the atmosphere shall be monitored weekly.

B. A qualitative visual observation of the opacity of emissions shall be performed from each baghouse vent on a weekly basis during periods when the baghouse(s) are venting to the atmosphere and a log of the observations maintained. If visible emissions from the vent(s) are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

C. Pressure drop across each baghouse shall be measured by a differential pressure gauge and monitored on weekly basis.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements:

- A. Records of whether or not each baghouse is venting to the atmosphere shall be maintained on a weekly basis.
- B. Records of weekly qualitative visual observations shall be maintained.
- C. Records of any Method 9 readings taken in response to visible emissions shall be maintained.
- D. Records of weekly pressure drop readings shall be maintained.
- E. Records of corrective actions taken in response to out of range pressure drop readings or opacity greater than 20 percent shall be maintained.
- F. Records shall be maintained of baghouse filter replacements.
- G. The date and time each record specified above is recorded shall be noted in the log.

6. Specific Reporting Requirements: The reporting requirements in Section F5 for the wood working operations are specified here to only require the submittal of the following:

- a) a summary of qualitative visible emission observations;
- b) pressure drop readings;
- c) baghouse filter replacements during the reporting period.

7. Specific Control Equipment Operating Conditions: Baghouse instrumentation shall be maintained and operated according to manufacturer's specifications. Pressure drop across each baghouse shall be within the range of 0.5 to 5.5 inches of H₂O. A pressure drop outside of this range shall require an inspection of control equipment for any necessary repairs or maintenance. Refer to Section E

8. Alternate Operating Scenarios: N/A

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**04 Finish lines A (04) and B (06) for wood flooring**
Rustic line (08)
Finish Line, water stain wash line (25)

Description: Finishing Line A and B, each consisting of (2) stain applications, 1.2 mmBTU/hr natural gas fired dryer (refer to insignificant activities list), (5) sealer applicators and (3) topcoat applicators with associated 1.2 mmBTU/hr natural gas fired drying/UV curing oven (refer to insignificant activities list) after each applicator. Rustic line consists of roll coater and 1.2 mmBTU/hr natural gas fired drying oven (refer to insignificant activities list). Water stain wash line consists of water based stain roll applicator and 1.2 mmBTU/hr natural gas fired drying oven (refer to insignificant activities list).

APPLICABLE REGULATIONS: N/A

1. **Operating Limitations:** Source-wide emission limits on individual HAP, combined HAPs and VOC. Refer to Section D.
2. **Emission Limitations:** Source-wide emission limits on individual HAP, combined HAPs and VOC. Refer to Section D.
3. **Testing Requirements:** None
4. **Specific Monitoring Requirements:**
 - A. The usage rate in gallons of stains, sealers, coatings, cleaning solvents or any other HAP/VOC containing material shall be monitored monthly.
 - B. The monthly and twelve-month rolling total emissions of individual HAP, combined HAPs and VOC shall be monitored. Refer to Section D.
5. **Specific Recordkeeping Requirements:**
 - A. Records of the usage in gallons of stains, sealers, coatings, cleaning solvents or any other HAP/VOC containing material shall be maintained on a monthly basis.
 - B. Records of density of HAP/VOC containing materials as applied shall be maintained.
 - C. Records of the individual HAP emission factors and VOC emission factors (less water and exempt solvents) for materials as applied shall be maintained.
 - D. Records of the monthly and twelve-month rolling total emissions of individual HAP, combined HAPs and VOC shall be maintained.
 - E. All purchase orders and invoices for HAP/VOC containing material shall be maintained.
6. **Specific Reporting Requirements:** The reporting requirements in Section F5 for the surface coating operations under Emission Unit 04 are specified here to only require the submittal of an emissions calculation worksheet. The worksheet shall, at a minimum contain the monthly usage rates of stains, sealers, coatings, cleaning solvents and the monthly and twelve-month rolling total emissions of HAP and VOC.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

7. Specific Control Equipment Operating Conditions: N/A
8. Alternate Operating Scenarios: N/A

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

08

Panel pressing (08)

Veneer splicing and veneer dryer (09) using adhesive

Veneer Processing Line (VPL) (10)

Description: Panel press, veneer splicing, 11 mmBTU/hr natural gas fired veneer dryer, veneer treatment line for impregnation of veneers and 1.2 mmBTU/hr natural gas fired drying oven (refer to insignificant activities list).

APPLICABLE REGULATIONS:

401 KAR 59:010, New process operations applicable to each affected facility associated with a process operation which is not subject to another emission standard with respect to particulates in Chapter 59 of 401 KAR commenced on or after July 2, 1975.

1. **Operating Limitations:** Source-wide emission limits on individual HAP, combined HAPs and VOC. Refer to Section D.
2. **Emission Limitations:**
 - A. 401 KAR 59:010, § 3(1), Visible emissions from the veneer dryer stack to the atmosphere shall be less than 20 percent opacity.
 - B. 401 KAR 59:010, § 3(2), Particulate matter emissions from the veneer dryer stack shall not exceed 6.99 pounds per hour.

Compliance Demonstration Method:

Refer to **4. Specific Monitoring Requirements** for compliance requirements for the opacity standard. Compliance with the mass standard is assumed based on the PM emission factor identified in the table below.

Direct, Natural Gas-Fired Veneer Dryer		
Pollutant	Emission Factor (lb/10,000 ft² of 3/8 inch thick veneer)	Potential to Emit (lb/hour)
CO	6.40	1.71
NO _x	0.12	0.03
PM	4.99	1.33
PM ₁₀	4.99	1.33
VOC	25.44	6.78

Emission factors are referenced from AP-42, Fifth Edition, Volume I, Chapter 10: Wood Products Industry, Plywood Manufacturing.

The PM emission factor is referenced from Table 10.5-1 (01/02). Due to absence of data, the PM₁₀ emission factor is assumed to equal the PM emission factor. The CO and NO_x emission factors are referenced from Table 10.5-2 (01/02). The VOC emission factor and HAP emission factors (not listed here) are referenced from Table 10.5-3. All emission factors are for direct, natural gas-fired, heating zones except for VOC and HAP which utilize factors from heating and cooling zones in some instances. Emission factors are for softwood drying due to the unavailability of emission data for hardwood drying for veneer dryers of this type.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**2. Emission Limitations (Continued):**

Example conversion of 10,000 ft² 1/8 inch-basis to 10,000 ft² 3/8 inch-basis:

10,000 ft² 1/8 inch-basis = 10,000 ft² 3/8 inch-basis x (1/8) / (3/8) = 3,333 ft² 3/8 inch-basis.

C. Source-wide emission limits on individual HAP, combined HAPs and VOC.
Refer to Section D.

The VOC and HAP Emission factors for panel pressing (not listed here) are referenced from Table 10.5-6 (01/02). All emission factors are for urea formaldehyde (UF) resin, hardwood plywood.

3. Testing Requirements: Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005, § 2(2) and 50:045, § 4.**4. Specific Monitoring Requirements:**

- A. The usage rate in gallons of adhesive, stabilizer, coatings, cleaning solvents or any other HAP/VOC containing material shall be monitored monthly.
- B. The square footage of veneer dried shall be monitored monthly.
- C. The square footage of panel processed by the press shall be monitored monthly.
- D. The monthly and twelve-month rolling total emissions of individual HAP, combined HAPs and VOC shall be monitored. Refer to Section D.

5. Specific Recordkeeping Requirements:

- A. Records of the usage in gallons of adhesives, stabilizer, coatings, cleaning solvents or any other HAP/VOC containing material shall be maintained on a monthly basis.
- B. Records of density of HAP/VOC containing materials as applied shall be maintained.
- C. Records of the individual HAP emission factors and VOC emission factors (less water and exempt solvents) for materials as applied shall be maintained.
- D. Records of the square footage of veneer dried monthly shall be maintained.
- E. Records of the square footage of panel processed in the press monthly shall be maintained.
- F. Records of the monthly and twelve-month rolling total emissions of individual HAP, combined HAPs and VOC shall be maintained. Refer to Section D.
- G. All purchase orders and invoices for HAP/VOC containing material shall be maintained.

6. Specific Reporting Requirements: The reporting requirements in Section F5 for the surface coating and drying operations under Emission Unit 08 are specified here to only require the submittal of an emissions calculation worksheet. The data in the spreadsheet shall at a minimum contain the monthly usage rates of veneer, panel, adhesives, stabilizer, coatings, cleaning solvents and the monthly and twelve-month rolling total HAP and VOC emission rates.**7. Specific Control Equipment Operating Conditions:** N/A**8. Alternate Operating Scenarios:** N/A

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary (refer to Section D for requirements regarding monitoring and record keeping of natural gas combusted in ovens and dryers).

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. Finish Line A/B Drying Oven – 1.2 mmBTU/hr	N/A
2. Finish Line A/B Curing Oven – 1.2 mmBTU/hr	N/A
3. Rustic Finish Oven – 1.2 mmBTU/hr	N/A
4. VPL Drying Oven – 1.2 mmBTU/hr	N/A
5. Two Adhesive Storage Tanks (7,200 gallon capacity)	N/A
6. 10 KW Natural Gas Fired Emergency Generator	N/A
7. Above ground Diesel Storage Tank (300 gallon capacity)	N/A
8. Propane Space Heaters	N/A
9. Metal Machining Activities / Maintenance Shop Activities	N/A
10. Machinery Lubricants/Lubrication Activities	N/A
11. Testing Equipment in the Quality Control Lab	N/A

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Particulate matter (PM) and Volatile Organic Compound (VOC) emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.
3. The emissions of any individual Hazardous Air Pollutant (HAP) shall not exceed nine (9) tons during any consecutive twelve (12) month period. The emissions of combined HAPs shall not exceed twenty-two and one-half (22.5) tons during any consecutive twelve (12) month period. Monthly records, which demonstrate compliance with these limitations, shall be maintained and total HAP emissions shall be reported on a semi-annual basis. HAP emissions shall be calculated and recorded on a *monthly* basis. These records shall be summarized in tons per month HAP emissions; subsequently, tons of HAP emissions per rolling 12-month period shall be recorded. In addition, these records shall demonstrate compliance with HAP emission limitations listed herein. These records, as well as purchase orders and invoices for all HAP containing materials, shall be maintained on site for a period of five years from the date the data was collected and shall be provided to the Division upon request.

Compliance Demonstration Method:

HAP emitted (lb/month) = \sum [HAP emissions from coatings, adhesives and solvents] + [HAP emissions from boilers] + [HAP emissions from veneer dryer] + [HAP emissions from panel press]

$$E_{HAPi} = Q * d * \frac{wt\% HAPi}{100} * \left(\frac{Pj}{\sum_{j=1}^n Pj} \right) + T * WEF_{HAPi} + V * DEF_{HAPi} + F * PEF_{HAPi}$$

Where:

E_{HAPi} = Emissions of HAP "i" (lb/month)

Q = Coating usage rate (gal/month)

d = Density of the material used (lb/gal)

wt%_{HAPi} = Weight percent of HAP "i" in material (%)

Pj = Number of parts of material "j" in the coating as applied

T = Tons of wood burned in the boilers per month.

WEF_{HAPi} = HAP emission factor listed in AP-42 Tables 1.6-3 and 1.6-4.

V = 10,000 ft² of veneer on a 3/8 inch basis dried per month.

DEF_{HAPi} = HAP emission factor listed in AP-42 Table 10.5-3.

F = 10,000 ft² of flooring processed in the panel press on a 3/8 inch basis per month.

PEF_{HAPi} = HAP emission factor listed in AP-42 Table 10.5-6.

Note: Emission factors with units of lb/1,000 ft² must be multiplied by 10.

$$\text{Combined HAP emitted (lb/month)} = \sum_{i=1}^n E_{HAPi}$$

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

4. VOC emissions shall not exceed 230 tons during any consecutive twelve (12) month period. Monthly records to demonstrate compliance with this limitation shall be maintained and total VOC emissions shall be reported on a semi-annual basis. VOC emissions shall be calculated and recorded on a *monthly* basis. These records shall be summarized in tons per month of VOC emissions; subsequently, tons of VOC emissions per rolling 12-month period shall be recorded. In addition, these records shall demonstrate compliance with the VOC emission limitations listed herein. These records shall be maintained on site for a period of five years from the date the data was collected and shall be provided to the Division upon request.

Compliance Demonstration Method:

VOC emitted (lb/month) = \sum [VOC emissions from coatings, adhesives, solvents] + [VOC emissions from wood-fired boilers] + [VOC emissions from natural gas combustion in boilers, dryers and ovens] + [VOC emissions from the veneer dryer] + [VOC emissions from the panel press].

$$E_{VOC} = Q * C_{VOC} * \left(\frac{P_j}{\sum_{j=1}^n P_j} \right) + T * WEF_{VOC} + S * NEF_{VOC} + V * DEF_{VOC} + F * PEF_{VOC}$$

Where:

E_{VOC} = Emissions of VOC (lb/month)

Q = Coating usage rate (gal/month)

C_{VOC} = VOC content less water and exempt solvents in material "j"

P_j = Number of parts of material "j" in the coating as applied

T = Tons of wood burned in the boilers per month

WEF_{VOC} = VOC emission factor for wood-fired boilers listed in Section B = 0.261 lb/ton

S = Million standard cubic feet of natural gas burned per month.

NEF_{VOC} = VOC emission factor for natural gas combustion in boilers, dryers and ovens = 5.5 lb per million standard cubic feet.

V = 10,000 ft² of veneer on a 3/8 inch basis dried per month.

DEF_{VOC} = VOC emission factor listed in AP-42 Table 10.5-3.

F = 10,000 ft² of flooring processed in the panel press on a 3/8 inch basis per month.

PEF_{VOC} = VOC emission factor listed in AP-42 Table 10.5-6.

Note: Emission factors with units of lb/1,000 ft² must be multiplied by 10.

5. Notification shall be submitted to the Division if the potential to emit of any individual HAP, combined HAPs and/or VOC increase above the levels identified at the issuance date of this permit.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b (IV)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements;
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b(IV) 2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
 - b. To access and copy any records required by the permit;
 - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Section 1b (V)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within *30 days*. Other deviations from permit requirements shall *be included in the semiannual report required by Section F.6* [Section 1b (V) 3, 4. of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status for the source, currently and over the reporting period.
 - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

- f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality
London Regional Office
875 S. Main Street
London, KY 40741

U.S. EPA Region 4
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.
11. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

SECTION G - GENERAL PROVISIONS(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a, 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
 - b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Section 1a, 7,8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].
11. This permit does not convey property rights or exclusive privileges [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Environmental and Public Protection or any other federal, state, or local agency.
13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].
14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].
15. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

SECTION G - GENERAL PROVISIONS (CONTINUED)

16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with:
 - a. Applicable requirements that are included and specifically identified in the permit and
 - b. Non-applicable requirements expressly identified in this permit.

(b) Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].
2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].

(c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

SECTION G - GENERAL PROVISIONS (CONTINUED)

- (d) Construction, Start-Up, and Initial Compliance Demonstration Requirements
None

- (e) Acid Rain Program Requirements

If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

- (f) Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - a. An emergency occurred and the permittee can identify the cause of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
 - e. This requirement does not relieve the source of other local, state or federal notification requirements.
2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

(g) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center
P.O. Box 1515
Lanham-Seabrook, MD 20703-1515.

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

(h) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
 - e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

SECTION H - ALTERNATE OPERATING SCENARIOS

N/A

SECTION I - COMPLIANCE SCHEDULE

N/A